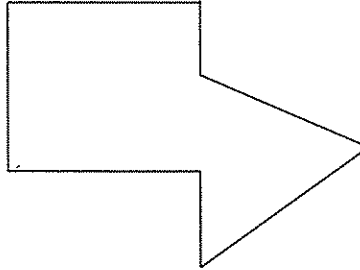
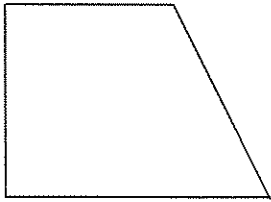


## APPLICATIONS OF PERIMETER AND AREA

Name \_\_\_\_\_

1. Find the area and perimeter of each figure below. Measure in centimeters.



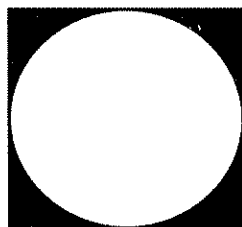
2. Carlos paid \$8.99 for a large pizza (16-inch diameter). Tameka bought two rectangular pan pizzas, each of which measured 11 inches by 13 inches. She paid a total of \$10.99 for the two pizzas. Which pizza is the better buy based on the number of square inches per pizza?
3. Plastic edging for flower beds comes in 50-foot rolls and costs \$6.85 per roll. What is the cost to completely edge two rectangular flower beds 40 feet by 15 feet..
4. The area of a square is 196 square meters. If one-half of the perimeter of the square is the same as the perimeter of a regular pentagon, what is the length of one side of the pentagon?
5. Which has the smallest area, a circle with a diameter of 3 yards, a triangle with a base of 20 feet and a height of 11 feet, or a square with a side of 10.5 feet?
6. Mr. Evans is going to replace the carpet in his family room. The dimensions of the room are 22.5 **feet** by 26.5 **feet**. If the cost of the carpet, pad and installation is \$28.75 per square **yard**, what will be the total cost excluding tax?
7. One pipe has a 1.25 centimeter diameter. A second pipe has a two and on-half centimeter diameter. What is the difference in the area of the openings of the two pipes?
8. An eight in diameter pizza costs \$6.95. Kate asserts that a 16-inch diameter pizza (same toppings, same crust) should cost \$13.90. Explain her reasoning and determine if this is a fair price. If not, what would be a fair price?

# Inscribed Figures

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

7.



18 meters

Area of square: \_\_\_\_\_

Area of circle: \_\_\_\_\_

Area of shaded region: \_\_\_\_\_

8.



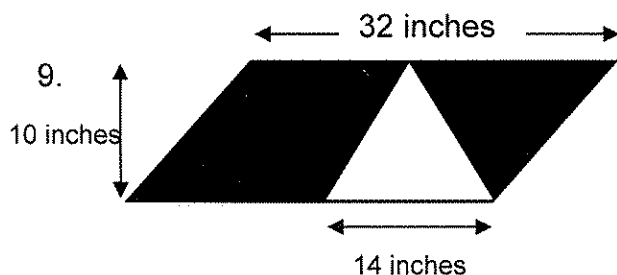
24 inches

Area of rectangle: \_\_\_\_\_

Area of circles: \_\_\_\_\_

Area of shaded region: \_\_\_\_\_

9.

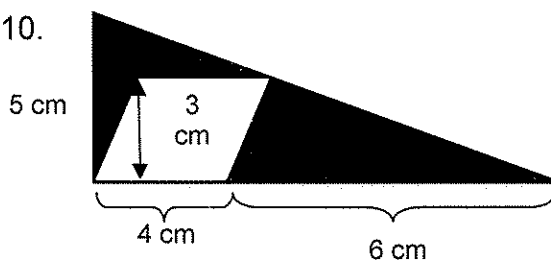


Area of parallelogram: \_\_\_\_\_

Area of triangle: \_\_\_\_\_

Area of shaded region: \_\_\_\_\_

10.

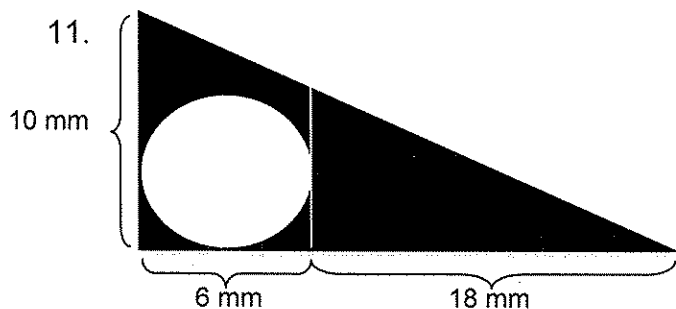


Area of triangle: \_\_\_\_\_

Area of parallelogram: \_\_\_\_\_

Area of shaded region: \_\_\_\_\_

11.

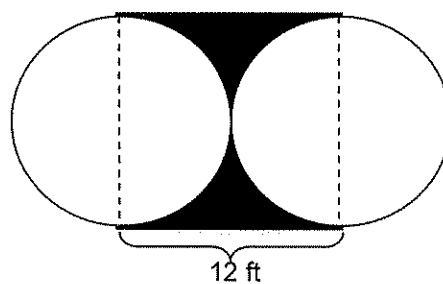


Area of triangle: \_\_\_\_\_

Area of circle: \_\_\_\_\_

Area of shaded region: \_\_\_\_\_

12.



Area of Square: \_\_\_\_\_

Area of Semi Circles: \_\_\_\_\_

Area of shaded region: \_\_\_\_\_